(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 17 February 2005 (17.02.2005)

PCT

(10) International Publication Number WO 2005/013980 A1

(51) International Patent Classification⁷: A61K 31/405, A61P 31/12

(21) International Application Number:

PCT/EP2004/051773

(22) International Filing Date: 11 August 2004 (11.08.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: RM2003A000394 12 August 2003 (12.08.2003) IT

(71) Applicant (for all designated States except US): UNIVER-SITA' DEGLI STUDI DI ROMA "TOR VERGATA" [IT/IT]; Via Orazio Raimondo, 18, I-00173 Roma (IT).

(72) Inventor; and

(75) Inventor/Applicant (for US only): SANTORO, Maria, Gabriella [IT/IT]; Via Vasto, 8, I-83100 Avellino (IT).

(74) Agent: GERVASI, Gemma; Notarbartolo & Gervasi S.p.A., Corso di Porta Vittoria 9, I-20122 Milan (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: USE OF INDOMETHACIN AND DERIVATIVES AS BROAD-SPECTRUM ANTIVIRAL DRUGS AND CORRESPONDING PHARMACEUTICAL COMPOSITIONS.

(57) Abstract: Object of the present invention is the use of indomethacin (INDO) and its derivatives and salts as antiviral drugs, since it was found that INDO is able to stimulate an antiviral defense response in cells attacked by viruses. This antiviral response has been found in the presence of INDO alone and/or in combination with other compounds, for instance with metals and metal-containing compounds, Prostanoids and antiviral drugs. In combination with these compounds INDO develops an unexpected as well as effective synergic antiviral action.

